

MUTALEKIEV, Il. D.

Reasons for the Appearance of Listers (Fuses) When Firing Ammunition
and Methods to Eliminate them. Elektroenergia (Electric Power), #11-12:Li; Nov-Dec 41

BULGARIA

MUTAFCHIEV, Dr St., Chief Veterinarian (Glavni Veterinaren Lekar),
Cooperative Farm (TKZS=Trudovo Kooperativno Zemedsko Stopanstvo),
Village of Dzhurovo, Sofia Okrug.

"The Application of Sulfacile Sodium in the Treatment of Edematous
Sickness in Piglets."

Sofia, Veterinarski Vestnik, Vol 60, No 11, 1965, p 7.

Abstract: Thirty piglets aged two to six months died of edematous disease in the spring and autumn of 1960 in the public and private sector of agriculture in the author's territory, and clomycin was ineffective. A dose of five to 10 cubic centimeters of sulfacile sodium (absucid) thrice daily yielded better results in cutting down mortality from this disease to nine out of 36 piglets in 1961 and to five out of 43 in 1962.

No references.

1/1

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MUTAFCHIEV, TSV.
BULGARIA / Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Referat. Zhurnal Khimiya, No.1, 1958, 584.

Author : G.Bлизнаков, Св. Райчева, Тsv. Mutafchiyev.

Inst : Institute of Chemistry and Technology, Bulgaria.

Title : Influence of Some Ions in Current Intensity at Electrolysis
with Mercury Microcathode.

Orig Pub : Godishnik Khim.-tekhnol. in-t, 1955 (1956), 2, No.2, 33-40.

Abstract : The influence of the addition of saturated solutions of Hg_2Cl_2 , Hg_2Br_2 , Hg_2I_2 and Hg_2SO_4 on the current intensity at the electrolysis of $Hg_2(NO_3)_2$ (I) (the concentration of I was two times lower than the concentration of the saturated solution of I) was studied with a stationary Hg drop-microcathode and a large Hg-anode. Electrolysis was carried out at a small constant voltage (5 mv). A drop of Hg (10^{-2}

Card: 1/2

BULGARIA / Physical Chemistry - Electrochemistry.

P-12

Abs Jour : Referat. Zhurnal Khimiya, No.1, 1958, 584.

Abstract : cm in dia) was received on the butt of a Pt wire by electrolyzing the solution of $Hg_2(NO_3)_2$. The influence of cations, indifferent electrolyte and polarographic maxima was eliminated under these conditions. At an addition of Cl^- , Br^- , I^- and SO_4^{2-} ions, the less the solubility of the corresponding Hg^{+2} salt is, the more the current strength drops. The additivity of the simultaneous action of two additions was established. These data are explained by the passivation taking place in the anion adsorption on the Hg surface.

Card: 2/2

MUTAFCHIEV, Ts.

Corrosion of metals. p. 1.
TEKHNIKA, Sofiya, Vol. 4, no. 6, Aug./Sept. 1955.

S^o: Monthly List of East European Acquisitions, (SEAL), LC, Vol. 5, No. 6 June 1956,
Uncl.

MUTAFOVIEV, TS.

Methods for protecting metals from corrosion. n.9. TEKHNIKA.
(Suiuz za nauchno-tehnicheskite druzhestva v Bulgaria) Sofiia.
Vol. 5, no. 1, Jan./Feb. 1956

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 12, December 1956

BULGARIA/Chemical Technology. Chemical Products and Their Applications. Corrosion. Corrosion Control. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 19762

Author : Mutafchiyev, Tsv.

Inst :

Title : Corrosion of Underground Metal Structures, and Methods of Control.

Orig Pub : Tekhnika (Bulg.), 1958, 7, No 5, 10-13

Abstract : No abstract.

Card : 1/1

ZHELIAZKOV, L.; ZIKOLOVA, Sv.; AGOVA M; MUTAFCHEVA, E.

Synthesis of new compounds with antituberculous properties, III.
Hydrazides and hydrazones of α -cyanocarbonic acid. Farmatsiya, Sofia
5 no.3:17-20 My-Je '55.

(ACETIC ACID, derivatives,
cyanoacetic acid hydrazides & hydrazones, ther. of
tuber. review)
(TUBERCULOSIS, therapy,
cyanoacetic acid hydrazides & hydrazones, review)

NACHEV, L.; GESHEVA, R.; MUTAFCHIEVA, S.

A rapid method for the quantitative and qualitative determination
of vitamin B₁₂ synthetized by actinomycetes on a solid medium.
Izv. mikrobiol. inst. 15:33-42 '63

*

EMANUILOV, Ign.; NACHEV, L.; GESHEVA, R.; DAOV, T.; VELCHEVA, P.; MUTAFCHIEVA, S.

Studies on the effect of some factors on the biosynthesis of
vitamin B₁₂ in silt. Izv. microbiol. inst. 15:53-58 '63

*

EMANUILOFF, I. [Emanuilov, I.]; MOUTAFCHIEVA, S. [Mutafchieva, S.]

Vitamin B₁₂ in the tissue of cattle. Doklady BAN 16 no. 7: 773-776 '63.

1. MUTAFOLO, L.; SHTYURK, A. Eng.
2. USSR (600)
4. Ships-Painting
7. New developments in ship painting. Mor. flot. 12, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

MUTAFOLO, M.

"The calculation of spatial multistaged towers by the method of 'plan
models.'"

Pt. 1. p. 557 (Industria Constructiilor Si A Materialelor De Constructii)
No. 10, 1957
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

1917年7月

2. "Morphine," D. KIRKWOOD; pp 8-9.
 3. "The Application of Radioactive Isotopes in Pharmacy." M. PRIMO, R. O'CHURK, and V. CLEARY; pp 31-36.
 4. "Development of Pharmaceutical Technology (Production of Penicillin)," I.S.I., not located.
 5. "Concerning the Quantitative Specification of Cortisone and Dexamethasone," A. TACKER; in: A. KOUSEVA, pp 10-19.
 6. "The Chemistry and Analytical Properties of Hydrocortisone," N. HILL; pp 120-126.
 7. "The Production of Glucosinolates," L. VANDENOEVER; in: Chemical Industrial Plant, Serbia; pp 32-35.
 8. "Concerning the Development, Extraction, and Chemical Composition of the Roots of Resiniferous Cardiacoids as Grown in Bulgaria," V.S. ZHUKOV and D.B. LONOV; pp 36-39.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135730008-3"

KADANOFF, D. [Kadanov, D.]; MUTAFOV, S.

Typically localized interfontanel ossicles of the cranial sutures.
Doklady BAN 16 no.6:673-676 '63.

*

IVANOV, Iv. M., prof; TSOLOV, KJr.; STREZOV, Sl.; GEORGIEV, D.;
NEICHEV, S.; MUTAFOV, St.

On silicosis in Balkan coal mines. Izv. inst. klin. obsht. med. 4:
175-202 '60.

(SILICOSIS statist)

BOEV, P.; MUTAFOV, S.

Anthropological studies of the inhabitants of the city of Silistra
and its District. Izv Inst morf BAN 4:237-240 '61.

(ANTHROPOLOGY)

KADANOFF, P., MUTAFOV, S.

On the configuration of the occipital and frontal regions of
skulls of Bulweria. Dokl. Bolg. Akad. Nauk 19, no. 12, 1965, p. 1111.

MUTAFOV, S.

Variations in the general shape of the lower extremities and
the transition toward pathological O- and X-legs. Dokl. Belg.
akad. nauk 18 no.2:187-190 '65

1. Submitted on October 16, 1964.

KADANOV, D.; MUTAFOV, St.

Problems of medical anthropology. Suvr. med. (Sofia) no.2:
23-30 '64

KADANOV, Dimitur, prof. d-r.; MVTAFOV, Stefan, St., i-r; KHLOV, Ivan
Nikolov; ANDREEV, Liuben Savov, arkh.

Sedoanthropometer, a device for anthropological measurement
of sitting positions. Durvomebel prom 7 no.1:27-29 Ja-F'ru

1. Chlen korespondent na Bulgarskata akademiiia na naukite
(for Kadanov).

KADANOV, D., prof d-r; MUTAFOV, St., d-r; ZHIVKOVA, L., inzh.

Types and subtypes of the soles of Bulgarian people.
Kozhi Sofia 4 no.3:3-6 '63.

KADANOV,D., d-r,prof.; ZHIVKOVA, L., inzh.; MUTAFOV,St., d-r.

Distribution of soles according to their measurements and the correlation between their individual measuring elements. Kozhi Sofia 4 no.5/6:8-9, 10 '63.

1. Chl. kor. na Bulgarskata akademia na naukite (for Kadanov)

KADANOV, D., d-r, prof.; MUTAFOV, St., d-r.

Foot diseases. Kozhi Sofia 4 no.7:7-8 '63.

1. Chl.kor. na Bulgarskata akademiiia na naukite (for Kadanov).

KADANOV, D., prof. d-r; MUTAFOV, St., d-r

General shape of the foot sole of the Bulgarian population.
Kozhi Sofia 4 no. 4:6-9 :⁴⁶

1. Corresponding Member of the Bulgarian Academy of Sciences
(for Kadnov).

KADANOV, D., prod. d-r; MUTAFOV, St., d-r; KONSTANTINOV, K.

Application of the multicomponent sole scale in the
shoe industry. Kozhi Sofia 5 no. 1: 7-8 '64.

KADANOV, Dimitur, d-r, prof.; MUTAFOV, Stefan, d-r; BOZHILOV, Vladimir, d-r

Application of anthropological standardization in the light industry in Bulgaria and abroad. Tekstilna prom 13 no.6:23-25 '64.

1. Corresponding Member of the Bulgarian Academy of Sciences.

KADANOV D. prof.; MUTAFOV S.; PANDOVA, B.

Regio pterina and os epipterium in the Bulgarian. Nauch. tr.
vissh. med. inst. Sofia 43 no. 5-9 '64

1. Chair of Anatomy. (Dir. prof. D. Kadancov).

Anatomy

BULGARIA

KADANOFF, D., MUTAROV, S., Department of Anthropology, Institute of Morphology

"Correlation Between Certain Important Foot Dimensions"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 4, 1966, pp 337-339

Abstract: /German article/ In the past there existed only a few foot indexes: width to length, height to length, and length to body height. Since the classical anthropometric methodology of R. Martin and K. Saller is not able to characterize fully the shape and size of the foot, the authors define a new set of eight indexes. They applied these subsequently to feet of 21,000 persons of differing age, and the present paper presents detailed results of the foot size-age correlation study carried out by means of these indexes. There are 2 Soviet-block and 3 Western references. (Manuscript received, 14 Jan 66.)

1/1

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135730008-3

METAF-W, BY.

Eight batches. Mask resistance 13 10.535-36 '64

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135730008-3"

MARSHAL, D.; MUTAFOV, T.

Memorandum agreement on the formulation of diplomatic. Summed. (Sofia) 19.01.1954.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135730008-3

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• 1000-111, • •, 1000-111

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135730008-3"

STOJANOV, E., inzn.; MUTAFOVA, E., inzh.

Transistor as quadripole. Radio i televizia 13 no. 2:53-54
'64.

MUTAFYAN, Ye.M.

Megasporogenesis and the formation of the embryo sac in
pepper. Izv. AN Arm. SSR. Biol. nauki 17 no. 1:95-99 Ja '64.
(MIRA 17:7)

MUTAFYAN, Ye.M.

Embryological study of the fertilization process of pepper following different modes of pollination. Izv. AN Arm. SSR. Biol. nauki 18 no.1:55-61 Ja '65. (MIRA 18:5)

S/020/63/148/005/018/029
B117/B186

AUTHORS: Nesterov, L. V., Sabirova, R. A., Krepysheva, N. Ye.,
Mutalapova, R. I.

TITLE: β -Hydroxy-alkyl-alkylene phosphites - a new type of phosphorous acid esters

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1085 - 1087

TEXT: β -Hydroxy-ethyl-ethylene phosphite (2-(2'-hydroxyethoxy)-1,3,2-dioxaphospholane (I) was obtained unexpectedly instead of β - β' -dihydroxy-triethyl phosphite by treating 1 mole ethyl ester of phosphorous salicylic acid with 2 moles ethylene glycol. This new type of phosphite, the first of a series, is a crystalline, slightly evil-smelling substance with its melting point at 50°C. It can be distilled in vacuo without decomposition; boiling point 86°C (9 mm Hg); it is easily soluble in alcohol, dioxane, warm ether and slightly soluble in benzene, benzine, and cold ether, and decomposes with water; it can best be purified by recrystallization from warm ether solutions after cooling to -85°C; it reacts with copper (I) salt and sulfur under self-heating. The structure was confirmed by 7 different types of synthesis. Additionally, the following homologs of I were obtained

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S/020/63/148/005/018/029
B117/B186

β -Hydroxy-alkyl-alkylene...

β -hydroxy- α,α,β -trimethopropylpinacolylene-phosphite (2-(2'-hydroxy-1',1',2'-trimethopropoxy)-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane) (II), melting point 88 - 89°C, obtained from pinacol; β -hydroxy- α -methopropylpseudo-butylene phosphite (2-(LD-erythro-2'-hydroxy-1'-methopropoxy)-cis-4,5-dimethyl-1,3,2-dioxaphospholane) (III), melting point 82 - 85°C, obtained from mezo-butane diol-2,3; (pinacolylene designates the bivalent radical $-C(CH_3)_2C(CH_3)_2$, and pseudobutylene the radical $-CH(CH_3)CH(CH_3)$). The two homologs of (I) are crystalline substances, better soluble in organic solvents, than (I). They are decomposed by water. Alcohol hydroxyls of (I), (II), and (III) can be determined easily by the Chugayev-Tserevetinov method. The possibility of tautomerism was refuted by the synthesis of 2 isomers: hydroxyethylpinacolylene phosphite (2-(2'-hydroxyethoxy)-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane) (IV) and β -hydroxy- α,α,β -trimethopropylethylene phosphite (2(2'-hydroxy-1'-1',2'-trimethopropoxy)-1,3,2-dioxaphospholane) (V). (IV) and (V) proved to be two different substances : (IV) is a viscous liquid which decomposes on distillation and which does not crystallize at temperatures above -40°C; below -40°C it solidifies to a glassy mass. (V) is also a viscous liquid, crystallizing completely at 0°C and melting again at 20°C. The elementary analysis of

Card 2/3

S/020/63/148/005/018/029
B117/B186

β -Hydroxy-alkyl-alkylene...

all compounds gave satisfactory results.

ASSOCIATION: Institute organicheskoy khimii Akademii nauk SSSR, Kazan'
(Institute of Organic Chemistry of the Academ of Sciences USSR,
Kazan')

PRESENTED: July 12, 1962, by A. Ye. Arbuzov, Academician

SUBMITTED: July 9, 1962

Card 3/3

L 27651-66 EMP(j)/ENT(m) RM

ACC NR: AP6018511

SOURCE CODE: UR/0079/65/035/011/2050/2055

AUTHOR: Nesterov, L. V.; Krepyshev, N. Ye.; Mutalapova, R. I.

41
40
B

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Derivatives of phosphorous acid. III. Arbuzov reaction in certain mixed phosphites

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 2050-2055

TOPIC TAGS: phosphorous acid, ester, organic synthetic process, electron donor

ABSTRACT: The authors attempted to confirm the hypothesis that if the difference in the Taft constants of two radicals of a mixed phosphite is sufficiently great (0.2 or greater), then the determining influence on the second step of the Arbuzov reaction is exerted by the initial polarization of the R-O bond, and the electron-donor radicals are predominantly split out, whereas, if the difference in the Taft constants is small (0.1 or less), but the radicals differ greatly enough in size and shape, then the steric factor becomes the determining factor: large substituents on the alpha-carbon atom of the radical prevent nucleophilic attack of the halogen ion, and the less cumbersome, although also less electron-donor radical is split out. Mixed esters with the following com-

Card 1/2

UDC: 547.26'118

L 27657-66

ACC NR: AP6018511

binations of radicals: n-amyI and beta-ethoxyethyl (almost the same weight, size, and shape, but differing greatly in Taft constants, -0.145 and +0.185) and n-amyI and beta-methoxyethyl (the electronegative radical is appreciably lighter) were synthesized to eliminate the influence of steric factors on the second stage of the Arbuzov reaction and to demonstrate only the difference in the electronegativity of the radicals. All the radicals were primary, and there was a basis for assuming the possibility of splitting out. The more electron-donor radicals were found to be preferentially split out. The results of the reactions indicated that the rate of splitting out of aliphatic primary radicals in the second step of the Arbuzov reaction, with all other conditions equal, is determined not by the ease of attack of the halogen ion on the alpha-carbon atom of the radical, but by the initial polarization and consequent ease of cleavage of the R-O bond. The chromatographic research was completed by N. A. Aleksandrova.

Orig. art. has: 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 13Nov64 / ORIG REF: 017 / OTH REF: 004

Card 2/2 CC

MUTALIBOC, F. A.

"On S. T. Pagava's Article "The Possibility of Making 3-Day Weather Forecasts for Individual Days,"
Meteorol. i gidrologiya, No 3, 1954, pp 57-59

The author criticizes Pagava's article and states that the methods of long-term weather forecasting are as yet insufficiently developed to permit accurate 3-day weather forecasts to be made. He states that Pagava's arguments are marred by methodological errors. (RZhGeol, No 2, 1955)

SO: Sum, No 606, 5 Aug 55

MUTALIBOV, A., kandidat tekhnicheskikh nauk.

Selecting an efficient method of reconditioning crankpins of
automobile engine crankshafts. Avt. transp. 32 no. 10:19-22 O '54.
(Automobiles--Engines) (MLRA 7:12)

MADAT-ZADE, A.A.; MUTALIBOV, D.A.

The extremely cold and snowy winter of 1949-50 in Azerbaijan and
on the Caspian Sea. Trudy Tbil.NIGMI no.9:23-30 '61.
(MIRA 15:3)

1. Institut geografii AN Azerbaydzhanskoy SSR.
(Azerbaijan--Winter) (Caspian Sea region--Winter)

MUTALIBOV, N.A.

New arteriographic method for the upper extremity. Dokl.
AN Azer.SSR 15 no.8:731-733 '58. (MIRA 13:1)

1. Predstavлено академиком АН АзерССР М.А.Топчубашевым.
(Arteries--Radiography)

MUTALIBOV, N.A.

Pneumorenoroentgenography combined with intravenous urography in the diagnosis of subcutaneous injuries of the kidneys. Azerb.med.zhur. no.10:42-45 O '59. (MIRA 13:2)

1. Iz pervoy fakul'tetskoy khirurgicheskoy kliniki (zaveduyushchiy - akademik AN Azerb. SSR, chlen-korrespondent AMN SSSR prof. M.A. Topchibashev) Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni N. Marimanova i iz gorodskoy klinicheskoy bol'nitsy No.2 im. Shaumyanu (glavvrach - Sh.S. Kasumov).
(KIDNEYS—RADIOGRAPHY)

MITALIPOV, M. A., Cand. Med. Sci. (Mss) - "The diagnosis of subacute tubular nephritis
to the kidneys". Baku, 1960. 17 pp (Azeri Stat. Med. Inst. fm. N. Narimanov),
220 copies (KL, No 14, 1960, 139)

MUTALIBOV, N.A.

Radiographic detection of the liver shadow by the inflation ~~of~~ the stomach, the duodenum, and the lungs. Dokl.AN Azerb.SSR 17 no.9:
837-840 '61. (MIRA 15:3)

1. Institut eksperimental'noy i klinicheskoy meditsiny AN AzSSR.
Predstavleno akademikom AN AzSSR M.A.Topchibashevym.
(LIVER--RADIOGRAPHY)

MUTALIBOV, N.A.

A new method of lumbar aortography. Dokl.AN Azerb.SSR 17
no.11:1089-1092 '61. (MIRA 15:2)

1. Institut eksperimental'noy i klinicheskoy meditsiny AN AzSSR.
Predstavлено академиком АН АзССР А.И.Караяевым.
(Aorta--Radiography)

MUTALIBOV, N.A., kand.med.nauk

Ligation of the inferior epigastric artery in endarteritis obliterans of the lower extremities. Azerb.med.zhur. no.5:52-55 My '62.
(MIRA 15:8)

1. Iz laboratorii eksperimental'noy khirurgii sektora fiziologii
AN Azerbaydzhanskoy SSR (rukovoditel' - akademik AN AzSSR A.I.
Karayev).

(ILIAC ARTERY--LIGATION) (EXTREMITIES, LOWER--DISEASES)

MUTALIBOV, N.A.

New method of arteriography of subclavian and upper extremity arteries. Dokl. AN Azerb. SSR 18 no.12:75-79 '62.

(MIRA 16:11)

1. Institut eksperimental'noy i klinicheskoy meditsiny AN AzerSSR.
Predstavлено академиком AN AzerSSR M.A. Topchibashevym.

POMOSOV, V.N., dotsent; MUTALIBOV, S.M., ordinotor

Case of operative treatment of atresia and vestibularis. Kaz. mod.
zhurn. no.6:63-64 N-D '61.

(MIRA 15:2)

1. Kafedra khirurgii (ispolnyayushchiy obyazannosti zaveduyushchego
dotsent V.N.Pomosov) Kazanskogo i khirurgicheskoye otdeleniye (nachal'nik-
A.S.Knirik) Kazanskoy zheleznodorozhnoy bol'nitsy.
(ANUS ABNORMALITIES AND DEFORMITIES)

MUTALIB-ZADE, M.T.

Isolated strangulation of an ovarian cyst in inguinal hernia.
Khirurgiia 32 no.2:66 F '56. (MLRA 9:7)
(OVARIES--TUMORS) (HERNIA) (CYSTS)

MUTALIMOVA, A.B., aspirant

Characteristics of the course of an ischemic attack in alcoholism.
Azerb. med. zhur. no.6:35-39 .e '62. (MI.A 17:3)

1. Iz kafedroy nervnykh bolezney (zav. - zasiuzhennyj deyatel' nauki, prof. A.V. Feyzullayev) Azerbayuzhanskogo meditsinskogo instituta imeni N. Narimanova.

MUTALIMOVA, A.B.

Regional cerebrovascular hypo- and hypertension in the clinical aspect of ischemic insult. Dokl. AN Azerb. SSR 18 no.9:65-69 '62.
(MIRA 17:1)

1. Predstavleno akademikom AN AzSSR A.I. Karayevym.



MUTALIMOVA, A.B.

Clinical variants of ischemic insult. Dokl. AN Azerb. SSR
19 no.10:73-77 '63. (MIRA 17:6)

1. Azerbaydzhanskiy gosudarstvennyy meditsinskiy institut
imeni N.N. Narimanova. Predstavлено akademikom AN Azerbay-
dzhanskoy SSR A.I. Karayevym.

DZHAMALOVA, Z.M., dotsent; MUTALKHODZHAYEVA, M.Kh., ordinatör

Results of treating chronic inflammatory processes of the adnexa
uteri in the Eighth of March Sanatorium (Ukrainian S.S.R.).
Med. zhur. Uzb. no. 2:6-9 F '61.
(MIRA 14:2)

1. Iz sanatoriya dlya bol'nykh s ginekologicheskimi zabolеваниами
(glavnyy vrach - Ye.P. Sazonova).
(GENERATIVE ORGANS, FEMALE—DISEASES)

KARIYEV, A.A.; MUTALOV, A.

Results of experiments in studying the effect of micro-elements on cotton under farm conditions. Vop. biol. i kraev. med. no.4:79-82 '63. (MIRA 17:2)

MUTALOV, M.G.

Tellurides in certain copper pyrite deposits of the Southern Urals. Mat. po geol. i pol. iskop. IUzh. Urala no.2:125-129 '60.
(Ural Mountains—Tellurides) (MIRA 14:3)

MUTALUN, L. (Andizhanskaya obl.)

One laboratory problem in geometry. Mat.v shkole no.4:72 Jl-4g
'60. (MIRA 13:9)
(Geometry, Plane)

MUTAPCIC, Nušret, inz. (Sarajevo)

Reconstruction of the aggregate for electric arc welding.
Zavarivanje 4 no.5/6:117-121 My-Je '61.

1. "Energoinvest", Sarajevo.

MUTAPCIć Nusret, inz. (Sarajevo)

Electric arc. Zavarivanje 4 no.7:135-137 S '61.

1. "Energoinvest", Sarajevo.

Mr. P. L.

Chiefs of Agricultural Ministry, etc., in India,
Vol. 2, No. 2, March 1951, Madras, Madras, India

Supply list of last 1000 agriculturalists, etc., etc., etc.,
March 1951, Madras.

NU. C.I., L.

"Increasing the level of security, within the organization, of
of Agricultural Irrigators and technicians", I. I. (1961) 12 No. 1, p.
1. 7/, May/Aug. 1961, B.L.R.A., (governor)

"Monthly list of last year's deaths from 1960, I. I. (1961), No. 1,
March 1961", Inc. .

MUTAROV, I.A.

Rotational constants of $\text{FH}_2\text{C} - \text{CH}_2\text{Cl}^{35}$ molecules. Izv. AN SSSR. Ser.
fiz. 22 no.9:1154-1156 S '58. (MIRA 11:10)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Ethane--Molecular rotation)

L 4358-66

ACC NR: AP5028785

SOURCE CODE: BU/0011/65/018/002/0187/0190
15
B

AUTHOR: Mutatov, S.

ORG: Department of Anatomy at the Medical Faculty, Sofia (Lehrstuhl fur Anatomie an der Medizinischen Hochschule)

TITLE: Variation in the general shape of the normal lower limbs and the transition to pathological O- and X-shaped legs

SOURCE: Bulgarska akademiya na naukite, v. 18, no. 2, 1965, 187-190

TOPIC TAGS: pathology, anatomy

ABSTRACT: /German article/ Although there exist numerous studies of pathological changes leading to O- and X-shaped legs, little is said in the scientific literature about shape variations in healthy humans, many of which come quite close to the admittedly pathological cases. Consequently, the author investigated the legs of 615 Bulgarian male adults and found that 2.76% had O-shaped legs, 41.50% elliptically shaped legs, 9.76% - dome shaped, 3.03% - parallel, 33.17% - mutually touching, 8.78 - forked, 0.33% - K-shaped, and 0.31% - X-shaped legs. In 90% of the cases the author was unable to find any correlation between the shape of the legs and some earlier illness.

The work was presented by D. Kadanoff, Corresponding Member of BAN, 16 Oct 64. Orig. art. has: 2 tables, 1 figure.

SUB CODE: LS / SUBM DATE: 16Oct64 / ORIG REF: 003 / OTH REF: 008 / SOV REF: 003
Card 1/1 ke

KHADZHIIVANOV, N. (Sofia); MUTAVCHEV, D. (Burgas); SAVOV, T. (Burgas);
RADEV, At. (Iambol)

Some new problems. Mat i fiz Bulg 6 no.1851-52 Ja.-Fe'63.

MUTAVDZIC, Antonije

(3)

SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: / not given ,

Affiliation:

Source: Belgrade, Jugoslovensko pronalazstvo, No 4, April 1961, pp 1-6.

Data: "International Activities of the Association of Yugoslav Inventors."

Authors:

BOGDANOVIC, Andrija, Member of the Legal Commission of the Association of
Yugoslav Inventors (Clan Pravne komisije Udruzenja Jugoslovenskih
Pronalazaca);

MUTAVDZIC, Antonije, General Secretary of the Association of Yugoslav
Inventors (Generalni sekretar UJP);

JOCIC, Dobrivoje, Technical Secretary of the Association of Yugoslav
Inventors (Tehnicki sekretar UJP);

3

MUTAVDZIC, Antonije
Surname (in caps); Given Names

(1)

Country: Yugoslavia

Academic Degrees: / not given /

Affiliation: General Secretary of the Association of Yugoslav Inventors
(Generalni sekretar Udruženja Jugoslovenskih pronalazaca)

Source: Belgrade, Jugoslovensko pronalazstvo, No 7, July 1961, pp 1-2.

Data: "Important Anniversaries."

5

MUTAVDZIC, M.

Primary carcinoma of the female urethra. Acta chir. Jugosl. 9 no.2:
132-139 '62.

1. Urološka klinika Medicinskog fakulteta u Beogradu (Upravnik prof.
dr S. Petkovic.

(URETHRA peopl)

PETKOVIC, S., prof. dr.; MUTAVDZIC, M., dr.

Contribution to the etiology and therapy of renal colic.
Med.Glas.17 no.11/12:455-457 N-D '63.

1. Uroloska klinika Medicinskog fakulteta u Beogradu (Upravnik:
prof. dr. S. Petkovic).

MUTAVDZIC, M.; RAKIC, Z.

Carcinoma of the penis. Acta chir. Jugosl. 10 no.1:30-37
'63.

1. Uroloska klinika Medicinskog fakulteta u Beogradu
(Upravnik prof. dr S. Petkovic).
(PENILE NEOPLASMS)

S

BUKHMAN, Ya.Z.; MUTAYEV, R.S.; BIECHENTAYEV, G.K.; SIMAKOV, P.G.; GALKIN, A.M.

Improvement of working conditions in strip mines. Bezop. truda v
prom. 9 no.4:15-16 Ap '65. (MIRA 18:5)

MUTERMILCH, Jerzy, prof. dr

Role and tasks of "Inżynieria i Budownictwo." Inż i bud 21
no.1:1-5 Ja '64.

MUTERWILCH, J.

Inzynieria i Budownictwo in the Years 1951-1953; A Review of a Periodical."
P. 192. (PRZEGIAD TECHNICZNY, Vol. 75, No. 5, May 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

MUTERMILCH, JERZY.

Wymiarowanie konstrukcji stalowych; nowe metody.
(Wyd. 1. Warszawa) Budownictwo i Architektura, 1956. 313 p.
(Sizing of steel constructions; new methods. 1st ed. illus., bibl., diagrs.,
footnotes, graphs)

SO: Monthly List of East European Accessions (EEAI) LC, Vol. 6, no. 6, June 1957, Uncl.

MUTERMILCH, J. ; GLSZEWSKI, E.; LUFINSKI, M.

The limit case method of dimensioning steel structures including the impact
of shearing stresses and flexures. p. 15.
(ARCHIWUM INZYNIERII LADOWE'. Vol 2, no. 1/2, 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol, 6, NO. 9, Sept, 1957 Unclassified

MUTERMILCH, J.; THIEL, K.

Building constructions at the Brussels Universal and International
Exhibition. p. 85.

INZYNIERIA I BUDOWNICTWO. (Naczelna Organizacja Techniczna i Polski
Zwiazek Inżynierow i Technikow Budowlanych) Warszawa, Poland.
Vol. 16, no. 3, Mar. 1959.

Monthly list of East European Accessions Index, (EEAI), LC, Vol. 8, no. 6,
June 1959
uncl.

Country : YUGOSLAVIA
 City, Inst. : Human and Animal Physiolog.
 Inner Secretion. Bi-Preserv.
 Jour. : Rje Zdrav-Sist., No 3, 1954, 16-17
 Author : Perinovich, V.; Obi Gov, S.: Nussevich, I.
 Institution : -
 Title : Our First Experience in Treatment Diseases
 with the BZ-55 (Tetraen) Preparation.
 Date, page : 1-12, 1954, 12, No 1, 97-107
 Abstract : No abstract.

Cont: 1/1

ZIMONJIC, B., prof., dr.; FAJGELJ, A., dr.; BOKONJIC, R., dr.;
MUTEVELIC, M., dr.; MUSAFIJA, A., dr.

Our results with the use of radioactive I-131 in the treatment
of hyperthyroidism. Med. glas. 17 no.3/4:106-108 Mr-Ap '63.

1. Interna klinika (1) Medicinskog fakulteta u Sarajevu -
Punkt za primjenu radikativnih izotopa (Sef: prof. dr B.
Zimonjic).

(IODINE ISOTOPES, THERAPEUTIC)
(HYPERTHYROIDISM)

S

HUTH RELE ASKED

Distr: 4R3d/4R2c(j)

Chemical properties of a few heterocyclic substances. Compounds by K. H. Meyer, Kim, and M. Roberts. March 1949. *J. Org. Chem. 14, 212-16 (1949).* The absorption spectrum of 2-hydroselenaphthene was studied in 90% EtOH, and in 90% EtOH N in HCl. Both curves were similar. In neutral soln. the compound is present predominantly in keto form. It is not possible to record the absorption spectrum of the enol form. The enol form is stable in basic solns., but under such a condition enol Na is formed. The spectra of the enol and enol Na are entirely different. The spectrum of selenanaphthene was studied in CHCl_3 , toluene, and dioxane soln. The shape of the curves is very similar in all 3 media. Small deviations are attributed to the effect of the solvent. Selenonaphthene was investigated in 90% EtOH and heptane soln. Both solns. produce similar spectra. A small difference in shape is due to the solvent effect.

Dennis Parkes

*4
2-may
2*

*Light absorption of five and five-six numbered ortho-
cyclic heterocyclic compounds. I.* Ayuda, Levin, Kise and
Rata. *J. Am. Chem. Soc.* 71, 1944 (1949). *J. Am. Chem.
Soc.* 71, 1944 (1949). *J. Am. Chem. Soc.* 71, 1944 (1949).
The mechanisms of light absorption of the 5-membered and 5-6-
membered orthocyclic rings are entirely different, cor-
responding to the different properties of these annulenes. The
spectrum of the basic heterocyclics not containing a halogen atom
is different from that which contains a hetero atom, and is
similar to the corresponding aromatic hydrocarbons. The
presence of the heteroatom in the ring results in a new, un-
usual electron configuration; this gives to the compound, elec-
tronic characteristics that yield a different spectral struc-
ture. The bathochromic shift in the spectrum is propor-
tional to the electronegativity of the heteroatom.

*art
111*

MUTH, BELA ROBERT

✓ Action of elements of main Group VI of the periodic system on the light absorption of organic compounds. I. Ultraviolet investigation of aromatic dicarboxylic acids containing substituents in side chains. Arnold Leitvin, Klaas and Béla Robert Muth. (Central Research Inst. Phys. Acad. Sci. Hung.) *J. Polym. Sci. Chem. Ed.*, 1965, 13, 373-384 (in German); cf. *C.A.*, 64, 6704d, 5706g. Graphs of the absorption curves between 400 and 200 m μ are given for the following compds. (λ in m μ and $\log e$ of max. given): BiOH 272, 3.936; 227, 4.031; α -C₆H₅(CO₂H)₂ 276, 3.047; 220, 3.876; 205, 4.318; α -C₆H₅CO₂HCH₂CO₂H 277, 2.919; 222, 2.930; 204, 4.227; α -C₆H₅(CO₂H)OCH₂CO₂H 273, 2.904; 230, 3.693; 205, 4.192; α -C₆H₅(CO₂H)(C₆H₅)₂COCH₂CO₂N 222, 3.814; 223, 4.201; α -C₆H₅(CO₂H)OC₆H₅ (II) 204, 3.574; —, —; 230, 3.852; 205, 4.108; α -HSC₆H₅CO₂H (III) 313, 3.153; 273, 3.288; 242, 3.863; 220, 4.024. The configuration of a CO₂H group into C₆H₅ remains on further substitution. A second CO₂H group produces a bathochromic effect, so that all 3 benzene bands are in the

ultraviolet. The shift is smaller the farther the CO₂H group is sep'd. from the ring. Substitution of S and Se for O also is bathochromic, the difference between the curves of the S and O compds. being greater than that between those of the S and Se compds., in accord with the other properties of the atoms defined by the periodic system. The curve of II (in which OH is the second substituent) is different from that of BiOH though similar in relative position to that of I. Substitution of S to give the unstable III changes the structure of the curve completely. II. Spectrographic investigation of dicyanodicarboxylic acids bound by heteroatoms. *Ibid.* 385-92. Graphs of the absorption curves between 200 and 400 m μ are given for the following compds. (λ in m μ and $\log e$ of max. given): S(α -C₆H₅CO₂H)₂ 316, 3.560; 252, 3.871; 210, 4.223; Se(α -C₆H₅CO₂H)₂ 331, 3.864; 202, 3.777; 227, 4.230; (α -SC₆H₅CO₂H)₂ 310, 3.842; 263, 4.164; 222, 4.495; (α -SeC₆H₅CO₂H)₂ 318, 3.980; 257, 1.232; 218, 4.527. The curves differ from those of Ph₂S, Ph₂Se, and Ph₂Se₂ but all have 3 bands and are similar to those of the dicarboxylic acids. Substitution of Se for S produces a bathochromic shift of the bands, and increasing the no. of heteroatoms, an increase in extinction.

Janet R. Austin

Distr: 4E3d

MUTH, B.R.

HUNGARY/Optics - Spectroscopy

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 7068

K-7

Author : Kiss A.I., Muth B.R.

Inst : Not Given

Title : Influence of Elements of the Sixth Group (Firts Subgroup) of
the Periodic System on the Absorption Spectra of Organic Com-
pounds. II. Spectroscopic Investigation of Diphenyldicarboxylic
Acids Bound Through the Heteroatom

Orig Pub : Acta chim. Acad. sci. hung., 1955, 7, No 3-4, 385-392

Abstract : An investigation was made of ultraviolet absorption spectra of
solutions of o, o'-dicarboxylic acids of diphenyl sulfide (I)
diphenyl disulfide (II) diphenyl selenide (III) and diphenyl
diselenide (IV) in 96% ethanol. It was found that introducing
the two carboxylic groups in the ring of diphenyl sulfide (V)
and diphenyl selenide (VI) does not change the number of
bands, but shifts them towards the long wave region and re-
duces their intensity. The latter circumstance is ascribed
to the steric opstacles occurring owing to the carboxylic
groups, consequently the molecules of I and III, unlike those

Card : 1/2

Muth, B.R.

~~✓~~ Spectroscopic studies of aromatic sulfides and selenides.
A. L. Kiss and B. R. Muth (Central Research Inst., Phys., Budapest). *J. Chem. Phys.* 23, 318 (1955). Cf. preceding abstr.—The spectra of *o,o*-dicarboxylate salts of diphenyl sulfide, diphenyl disulfide, diphenyl selenide, and diphenyl diselenide were discussed. — Henry Leidheiser, Jr.

PH

(D) *S* *N* *H*

Applications of ultraviolet absorption spectroscopy. II.
Béla Mészáros and Árpád Kiss (Magyar Tudományos Akad.,
Reaktor- és Atomenergiatudományi Kutató Intézete, Budapest, Hung.).
Magyar Tudományos Akad. Képviselő Bizottságának Közleményei 4, 477-70 (1960); cf. C.A. 52, 181178.—It was suggested that thianaphthene-2-carboxylic acid and selenanaphthene-2-carboxylic acid and, by decarboxylation, thianaphthene and selenanaphthene must be formed by the reaction of β -(2-chlorophenyl)acrylic acid (I) with Na polysulfide (II) and Na polyisocyanide (III), resp., according to the synthesis from 1-chloronaphthene-2-acrylic acid of Hennberg and Pfeifer (C.A. 54, 438). However, the m.p.s. of the products between I and II and between I and III were the same as those of the initial compds. but their color was changed. The comparison of the ultraviolet spectra of the initial compds. and the products showed that no reaction had taken place. Some adsorbed colloidal Se and finely dispersed S, resp., causes the color-change. The reason for the absence of a reaction is that the side chain in I deactivates the *o*- and *p*-positions of the benzene ring.

L. S. Ettinger

JW
1/1 Distr: 4B3d

6
2-May

HUNGARY/Physical Chemistry. Molecule. Chemical Bond.

B-4

Abs Jour: Ref Zhur-Khim., № 13, 1958, 42284.

Author : Kiss A. I., Muth E. R.

Inst : Hungarian Academy of Sciences.

Title : Absorption of Light by Condensed Heterocyclic Systems

Orig Pub: Acta chin. Acad. sci. hung., 1957, 11, No 3-4, 365-380;
Magyar tud. akad. Kem. tud. oszt. kozl., 1957, 8, No 2-3,
357-369.

Abstract: Investigation of ultraviolet absorption spectra of coumarone (I), indole (II), thionaphthene (III), selenonaphthene (IV) and for comparison -- of indene and o-methyl styrene (V). In all instances 3 bands were found which are classified as D, K and E, by analogy with V. It is shown that shift of bands on introduction of heteroatom depends on electric nega-

Card : 1/2

MUTH B.R.

HUNGARY/Optics - Spectroscopy

K-7

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 4611

Author : Kiss, A.I., Muth, B.R.

Inst : Hungarian Academy of Sciences, Budapest

Title : On the Ultraviolet Absorption Spectra of Selenonaphthene,
Selenium Indigo and 3-Oxyselenonaphthene.

Orig Pub : Acta chim. Acad. sci. hung., 1957, 11, No 1-2, 57-61

Abstract : Ultraviolet absorption spectra of selenonaphthene (I),
selenium indigo (II) and 3-oxyselenonaphthene (III) were ob-
tained. It is shown that the absorption curve of III, ob-
tained in 95% ethyl alcohol differs substantially from the
absorption curve of I. The absorption curves of II, taken
in three different solvents (chloroform, toluol, and dioxane)
are characteristic of the indigo structure. The spectrum of
I has three absorption regions, indicating the presence of
a condensed ring system.

Card : 1/1

MUTH, B. R.

3

- 464

The absorption of light by condensed ring systems containing hetero atoms. A. I. Kiss and B. R. Muth (Hung. Acad. Sci., Budapest). *Acta Chim. Acad. Sci. Hung.* 11, 365-80 (1957) (in German, English summary).—The mechanism of ultraviolet light absorption by σ -condensed cyclic systems with 5 or 6 members was studied. It was found that $\log \epsilon$ can be correlated by using the absorption of styrene as the basic compd., not by the number of electrons formed, but introduction of a hetero atom into the mol. yielded a homogeneous system. Band changes from introduction of hetero atoms depended on their electronegativity. For compds. of S or Se, an independent excitation of unbound electrons of the hetero atom was observed. Spectra of deriva. seemed to confirm the validity of the presumed band correlations. H. K. Zimmerman, Jr.

78
a/g

Distr: 4E3d/4E2c(j) *1*

The ultraviolet absorption spectra of monosubstituted benzene derivatives containing elements of the oxygen group. Arnold Levent Kiss and Béla Robert Muth (Magyar Tud. Akad. Körzponti Fiz. Int., Budapest). Magyar Tudományok Akad. Körzponti Fiz. Kutatás Intézetek Közleményei 7, 147-67(1969).—The ultraviolet absorption spectra of PhOH (in petr. ether, PhOH, H₂O, 10⁻³N HCl, 10⁻³N NaOH), of PhSH (in petr. ether and EtOH), and of PhSeH (in petr. ether) are reproduced. The shifts of the 2 bands at 372 and 210 m μ of PhOH and some phenyl alkyl-ethers in the S and Se analogues are discussed in terms of the same inductive and mesomeric trends.

E. E. Rennolds

*6
1-9-2 (NR)
2*

KISS, Arpad Istvan (Budapest); MUTH, Bela Robert (Budapest)

Ultraviolet light absorption of monosubstituted benzene derivatives containing the elements of the oxygen group. Acta chimica Hung 22 no.4:397-408 '60. (EEAI 10:2)

1. Central Research Institute for Physics, Hungarian Academy of Sciences, Budapest.

(Ultraviolet rays) (Light) (Benzene) (Oxygen)
(Sulfur) (Absorption spectra) (Phenol)
(Selenium) (Phenyl ether) (Alkyl groups)

KISS, Arpad Istvan (Budapest XI Stoczek u.2); MUTH, Bela Robert (Budapest XI Stoczek u.2)

Ultraviolet-light absorption of diphenylmethane type compounds containing the elements of the oxygen group. Acta chimica Hung 24 no.2:231-244 '60.
(EEAI 10:4)

1. Department of Physical Chemistry, Technical University, Budapest (for Kiss). 2. Central Research Institute for Electrotechnics (for Muth)

(Ultraviolet rays) (Absorption) (Diphenylmethane)
(Aromatic compounds) (Selenium)

Distr: 4E3d/4E3b/4E2c(j)

Preparation of selenoxanthene. B. R. Muth (Central Research Inst. Phys., Budapest, Hung.). *Chem. Ber.* 93, 283-4 (1960). Selenoxanthone (2.59 g.) and 1.3 g. red P heated during 1.5 hrs. slowly to 180° with 13 cc. fuming HI in a sealed tube, cooled, poured into aq. alkali, and filtered gave nearly 100% selenoxanthene, needles, m. 145° (CHCl₃-EtOH); it sublimed readily without decompn. The ultraviolet absorption max. and min. in EtOH and ligroine (b. 70-90°) were tabulated. F. W. Holloman

1- JED (NA)
1- RDW
3

HUTHESLUS, Volkmar

Journal of the Iron and Steel Institute
Vol. 176
Apr. 1954
New Publications

W. H. S. - W. R. K. - W. R. K. - W. R. K.

MUTHU, Marius, ing.

A problem connected with the manufacture of coffee grinding mills. Industria usoara 9 no.4:145-150 Ap '62.

MUTIBARIC, Jovan, inz.

Populus x. euramericana (Dode) Guinier cv. robusta, commonly
called the robust poplar in the Danubian forests in Backa.
Zbor prir Mat srp no.20:64-103 '61.

1. Zavod za kulturu topola, Novi Sad.

MUTICA, C.

"The August 23 Tachograph." P. 334. (ANALELE ROMANO-SOVIETIC, Vol. 69,
No. 6, June, 1954, Bucuresti, Rumania.)

SO; Monthly List of East European Accessions. (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

MURIC, C.

MURIC, C. Automobile roads or railways for forest-products transportation? - 1, 1959

Vol. 2 (i. e. '51) No. 9, Sept. 1956

REVISTĂ MURIC

SR CULTUR

Bucuresti, Romania

See: Fact European accession, Vol. 6, No. 3, Feb. 1957

MUTIHAC, V.

Observations on the Agighiol-Zebil Trias (northern Dobruja).
Dari seama sed 46:245-253 '58/59 [publ. '62].

MUTIHAC, V.

On the presence of Noric in northern Dobruja. Dari seama
sed 48:197-201 '60/61 [publ. '62]

MUTIHAC, Vasile

The Tulcea zone and its position in the structural frame of
Dobruja. Anuarul Comitet geol 3' pt. 1.:215-253 '64.

1. Submitted December 1963.